

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

10/518939

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference

(if desired) (12 characters maximum) 67440-A-PCT/JPW/JCC

| | |
|---|--|
| Box No. I TITLE OF INVENTION | |
| SPIROCYCLIC PIPERIDINES AS MCH1 ANTAGONISTS AND USES THEREOF | |
| Box No. II APPLICANT <input type="checkbox"/> This person is also inventor | |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) | |
| SYNAPTIC PHARMACEUTICAL CORPORATION 215 College Road Paramus, New Jersey 07652 United States of America | |
| Telephone No. None | |
| Facsimile No. None | |
| Teleprinter No. None | |
| Applicant's registration No. with the Office None | |
| State (that is, country) of nationality: United States of America | State (that is, country) of residence: United States of America |
| This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box | |
| Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) | |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) | |
| MARZABADI, Mohammad 153 Woodland Avenue Ridgewood, New Jersey 07450 United States of America | |
| This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.) | |
| Applicant's registration No. with the Office | |
| State (that is, country) of nationality: United States of America | State (that is, country) of residence: United States of America |
| This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box | |
| <input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet. | |
| Box No. IV AGENT OR COMMON REPRESENTATIVE: OR ADDRESS FOR CORRESPONDENCE | |
| The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative | |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) | |
| WHITE, John P. Cooper & Dunham LLP 1185 Avenue of the Americas New York, New York 10036 United States of America | |
| Telephone No. (212) 278-0400 | |
| Facsimile No. (212) 391-0526 | |
| Teleprinter No. None | |
| Agent's registration No. with the Office 28,678 | |
| <input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent. | |

BEST AVAILABLE COPY

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

JIANG, Yu
179 Mahattan Ave., Apt. 7B
Jersey City, New Jersey 07370
United States of America

This person is:

- ☐ applicant only
☒ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality

People's Republic of China

State (that is, country) of residence

United States of America

This person is applicant for the purposes of:

☐ all designated State☐ all designated States except the United States of America☒ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

LU, Kai
67A, Glenwood Ave.
Elmwood Park, New Jersey 07407
United States of America

This person is:

- ☐ applicant only
☒ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality

People's Republic of China

State (that is, country) of residence

United States of America

This person is applicant for the purposes of:

☐ all designated State☐ all designated States except the United States of America☒ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

CHEN, Chien-An
49-02 196th Place
Fresh Meadows, New York 11365
United States of America

This person is:

- ☐ applicant only
☒ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality

Taiwan

State (that is, country) of residence

United States of America

This person is applicant for the purposes of:

☐ all designated State☐ all designated States except the United States of America☒ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

DELEON, John
7427 Boulevard East, Apt. 5
North Bergen, New Jersey 07047
United States of America

This person is:

- ☐ applicant only
☒ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality

Phillipines

State (that is, country) of residence

United States of America

This person is applicant for the purposes of:

☐ all designated State☐ all designated States except the United States of America☒ the United States of America only☐ the States indicated in the Supplemental Box☒ Further applicants and/or (further) inventors are indicated on another continuation sheet

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request:

| | |
|---|--|
| <p>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</p> <p>WETZEL, John 16-08 Well Drive Fairlawn, New Jersey 07410 United States of America</p> | <p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p> <p>Applicant's registration No. with the Office</p> |
|---|--|

| | |
|--|--|
| State (that is, country) of nationality: United States of America | State (that is, country) of residence: United States of America |
| <p>This person is applicant for the purposes of:</p> <p><input type="checkbox"/> all designated States: <input type="checkbox"/> all designated States except the United States of America: <input checked="" type="checkbox"/> the United States of America only: <input type="checkbox"/> the States indicated in the Supplemental Box</p> | |

| | |
|---|--|
| <p>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</p> <p>ANDERSEN, Kim 744 Fernwood Court Ridgewood, New Jersey 07450 United States of America</p> | <p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p> <p>Applicant's registration No. with the Office</p> |
|---|--|

| | |
|--|--|
| State (that is, country) of nationality: Denmark | State (that is, country) of residence: United States of America |
| <p>This person is applicant for the purposes of:</p> <p><input type="checkbox"/> all designated States: <input type="checkbox"/> all designated States except the United States of America: <input checked="" type="checkbox"/> the United States of America only: <input type="checkbox"/> the States indicated in the Supplemental Box</p> | |

| | |
|--|---|
| <p>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</p> | <p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p> <p>Applicant's registration No. with the Office</p> |
|--|---|

| | |
|---|--|
| State (that is, country) of nationality: | State (that is, country) of residence: |
| <p>This person is applicant for the purposes of:</p> <p><input type="checkbox"/> all designated States: <input type="checkbox"/> all designated States except the United States of America: <input type="checkbox"/> the United States of America only: <input type="checkbox"/> the States indicated in the Supplemental Box</p> | |

| | |
|--|---|
| <p>Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</p> | <p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)</p> <p>Applicant's registration No. with the Office</p> |
|--|---|

| | |
|---|--|
| State (that is, country) of nationality: | State (that is, country) of residence: |
| <p>This person is applicant for the purposes of:</p> <p><input type="checkbox"/> all designated States: <input type="checkbox"/> all designated States except the United States of America: <input type="checkbox"/> the United States of America only: <input type="checkbox"/> the States indicated in the Supplemental Box</p> | |

☐ Further applicants and/or (further) inventors are indicated on another continuation sheet:

Box No. V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

Regional Patent

- ☒ AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)
- ☒ EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> AE United Arab Emirates | <input checked="" type="checkbox"/> GM Gambia | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> AG Antigua and Barbuda | <input checked="" type="checkbox"/> HR Croatia | <input checked="" type="checkbox"/> OM Oman |
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> PH Philippines |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> ID Indonesia | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> IL Israel | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> IN India | <input checked="" type="checkbox"/> RO Romania |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> IS Iceland | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina | <input checked="" type="checkbox"/> JP Japan | |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> SC Seychelles |
| <input checked="" type="checkbox"/> BG Bulgaria | <input checked="" type="checkbox"/> KG Kyrgyzstan | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> KR Republic of Korea | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> BZ Belize | <input checked="" type="checkbox"/> KZ Kazakhstan | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> LC Saint Lucia | <input checked="" type="checkbox"/> SL Sierra Leone |
| <input checked="" type="checkbox"/> CH & LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> LK Sri Lanka | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> LR Liberia | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> CO Colombia | <input checked="" type="checkbox"/> LS Lesotho | <input checked="" type="checkbox"/> TN Tunisia |
| <input checked="" type="checkbox"/> CR Costa Rica | <input checked="" type="checkbox"/> LT Lithuania | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> CU Cuba | <input checked="" type="checkbox"/> LU Luxembourg | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> LV Latvia | <input checked="" type="checkbox"/> TZ United Republic of Tanzania |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> MA Morocco | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> MD Republic of Moldova | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> DM Dominica | <input checked="" type="checkbox"/> MG Madagascar | <input checked="" type="checkbox"/> US United States of America (continuation-in-part) |
| <input checked="" type="checkbox"/> DZ Algeria | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> EC Ecuador | <input checked="" type="checkbox"/> MN Mongolia | <input checked="" type="checkbox"/> VC Saint Vincent and the Grenadines |
| <input checked="" type="checkbox"/> EE Estonia | <input checked="" type="checkbox"/> MW Malawi | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> MX Mexico | <input checked="" type="checkbox"/> YU Yugoslavia |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> MZ Mozambique | <input checked="" type="checkbox"/> ZA South Africa |
| <input checked="" type="checkbox"/> GB United Kingdom | <input checked="" type="checkbox"/> NO Norway | <input checked="" type="checkbox"/> ZM Zambia |
| <input checked="" type="checkbox"/> GD Grenada | | <input checked="" type="checkbox"/> ZW Zimbabwe |
| <input checked="" type="checkbox"/> GE Georgia | | |
| <input checked="" type="checkbox"/> GH Ghana | | |

Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:

- ☒ NI Nicaragua ☒ PG Papua New Guinea ☒ SY Syrian Arab Republic
- ☐ ☐ ☐

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

1. If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
 - (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
 - (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
 - (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
 - (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
 - (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI) and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
 - (vi) if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

Continuation of Box No. V:

US: 10/189,146
 filed: 03 July 2002
 (03.07.02)

| Box No. VI PRIORITY CLAIM | | | | |
|--|--|----------------------------------|--|--|
| The priority of the following earlier application(s) is hereby claimed: | | | | |
| Filing date of earlier application: (day/month/year) | Number of earlier application. | Where earlier application is: | | |
| | | national application: country | regional application: regional Office | international application: receiving Office |
| item (1) (03.07.02) 03 July 2002 | 10/189,146 | US | | |
| item (2) | | | | |
| item (3) | | | | |
| item (4) | | | | |
| item (5) | | | | |
| <input type="checkbox"/> Further priority claims are indicated in the Supplemental Box. | | | | |
| The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as: <input type="checkbox"/> all item: <input checked="" type="checkbox"/> item (1) <input type="checkbox"/> item (2) <input type="checkbox"/> item (3) <input type="checkbox"/> item (4) <input type="checkbox"/> item (5) <input type="checkbox"/> other, see Supplemental Box | | | | |
| * Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)): | | | | |
| Box No. VII INTERNATIONAL SEARCHING AUTHORITY | | | | |
| Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA / US | | | | |
| Request to use results of earlier search: reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority): Date (day/month/year) Number: Country (or regional Office) | | | | |
| Box No. VIII DECLARATIONS | | | | |
| The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration). | | | | Number of declaration: |
| <input type="checkbox"/> Box No. VIII (i) | Declaration as to the identity of the inventor | | | : |
| <input type="checkbox"/> Box No. VIII (ii) | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | | | : |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | | | : |
| <input type="checkbox"/> Box No. VIII (iv) | Declaration of inventorship (only for the purposes of the designation of the United States of America) | | | : |
| <input type="checkbox"/> Box No. VIII (v) | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | | | : |

Box No. IX CHECK LIST: LANGUAGE OF FILING

This international application contains:

- (a) the following number of sheets in paper form:
- request (including declaration sheets) : 9
 - description (excluding sequence listing part) : 127
 - claims : 11
 - abstract : 1
 - drawings : 0

Sub-total number of sheets : 148

sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below) : (1)

Total number of sheets : 148

(b) sequence listing part of description filed in computer readable form:

- (i) ☐ only (under Section 801(a)(i))
- (ii) ☐ in addition to being filed in paper form (under Section 801(a)(ii))

Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained (additional copies to be indicated under item 10(iii), if right column):

This international application is accompanied by the following items (mark the applicable check-boxes below and indicate in right column the number of each item):

- 1. ☒ fee calculation sheet : 1
- 2. ☐ original separate power of attorney
- 3. ☐ original general power of attorney
- 4. ☐ copy of general power of attorney; reference number, if any:
- 5. ☐ statement explaining lack of signature
- 6. ☐ priority document(s) identified in Box No. VI as item(s):
- 7. ☐ translation of international application into (language):
- 8. ☐ separate indications concerning deposited microorganism or other biological material
- 9. ☐ sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other))
 - (i) ☐ copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)
 - (ii) ☐ only where check-box (b)(i) or (b)(ii) is marked in left column: additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter
 - (iii) ☐ together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column.

10. ☒ other (specify): Express Mail Certificate of Mailing dated July 3, 2005, bearing Express Mail Label No. EV325704057US

Figure of the drawings which should accompany the abstract:

Language of filing of the international application: English

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

SYNAPTIC PHARMACEUTICAL CORPORATION

NAME: Theresa A. Branchek DATE: 7/14/05
TITLE: Executive Vice President

For receiving Office use only

1. Date of actual receipt of the purported international application:

3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:

4. Date of timely receipt of the required corrections under PCT Article 11(2)

5. International Searching Authority (if two or more are competent): ISA

6. ☐ Transmittal of search copy delayed until search fee is paid

2. Drawings:

☐ received:

☐ not received:

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

| Box No. 1X CHECK LIST: LANGUAGE OF FILING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------------|---|--|--|---|---|---|----------|---|-------|--|----------------------------|-----|---|--|-----|--|-------|--|------------------------|-----|--|--|---|---|---|--|---|--|---|--|---|---|---|---|---|---|---|--|---|---|--|---|--|--|--|--|--|
| <p>This international application contains:</p> <p>(a) the following number of sheets in paper form:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">request (including declaration sheet)</td> <td style="width: 20%; text-align: right;">9</td> </tr> <tr> <td>description (including sequence listing part)</td> <td style="text-align: right;">127</td> </tr> <tr> <td>claims</td> <td style="text-align: right;">11</td> </tr> <tr> <td>abstract</td> <td style="text-align: right;">1</td> </tr> <tr> <td>drawings</td> <td style="text-align: right;">0</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td>Sub-total number of sheets</td> <td style="text-align: right;">148</td> </tr> <tr> <td colspan="2">sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below)</td> </tr> <tr> <td colspan="2" style="text-align: right;">()</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td>Total number of sheets</td> <td style="text-align: right;">148</td> </tr> </table> <p>(b) sequence listing part of description filed in computer readable form:</p> <p>(i) <input type="checkbox"/> only (under Section 801(a)(ii))</p> <p>(ii) <input type="checkbox"/> in addition to being filed in paper form (under Section 801(a)(ii))</p> <p>Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained (additional copies to be indicated under item V(iii), in right column):</p> | request (including declaration sheet) | 9 | description (including sequence listing part) | 127 | claims | 11 | abstract | 1 | drawings | 0 | <hr/> | | Sub-total number of sheets | 148 | sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below) | | () | | <hr/> | | Total number of sheets | 148 | <p>This international application is accompanied by the following items) (mark the applicable check-boxes below and indicate in right column the number of each item):</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">1. <input checked="" type="checkbox"/> fee calculation sheet</td> <td style="width: 20%; text-align: right;">1</td> </tr> <tr> <td>2. <input type="checkbox"/> original separate power of attorney</td> <td style="text-align: right;">:</td> </tr> <tr> <td>3. <input type="checkbox"/> original general power of attorney</td> <td style="text-align: right;">:</td> </tr> <tr> <td>4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:</td> <td style="text-align: right;">:</td> </tr> <tr> <td>5. <input type="checkbox"/> statement explaining lack of signature</td> <td style="text-align: right;">:</td> </tr> <tr> <td>6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s):</td> <td style="text-align: right;">:</td> </tr> <tr> <td>7. <input type="checkbox"/> translation of international application into (language):</td> <td style="text-align: right;">:</td> </tr> <tr> <td>8. <input type="checkbox"/> separate indications concerning deposited microorganism, or other biological material</td> <td style="text-align: right;">:</td> </tr> <tr> <td>9. <input type="checkbox"/> sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other))</td> <td style="text-align: right;">:</td> </tr> <tr> <td colspan="2">(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 15ter only (and not as part of the international application)</td> </tr> <tr> <td colspan="2">(ii) <input type="checkbox"/> (only where check-box (b)(ii) or (b)(iii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 15ter</td> </tr> <tr> <td colspan="2">(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column</td> </tr> <tr> <td colspan="2">10. <input checked="" type="checkbox"/> other (specify): <u>Express Mail Certificate of Mailing dated July 3, 2003, bearing Express Mail Label No. EV325704057US</u></td> </tr> </table> | 1. <input checked="" type="checkbox"/> fee calculation sheet | 1 | 2. <input type="checkbox"/> original separate power of attorney | : | 3. <input type="checkbox"/> original general power of attorney | : | 4. <input type="checkbox"/> copy of general power of attorney; 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| request (including declaration sheet) | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| description (including sequence listing part) | 127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| claims | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| abstract | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| drawings | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sub-total number of sheets | 148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Total number of sheets | 148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <input checked="" type="checkbox"/> fee calculation sheet | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <input type="checkbox"/> original separate power of attorney | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <input type="checkbox"/> original general power of attorney | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <input type="checkbox"/> statement explaining lack of signature | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. <input type="checkbox"/> translation of international application into (language): | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. <input type="checkbox"/> separate indications concerning deposited microorganism, or other biological material | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. <input type="checkbox"/> sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other)) | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 15ter only (and not as part of the international application) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (ii) <input type="checkbox"/> (only where check-box (b)(ii) or (b)(iii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 15ter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. <input checked="" type="checkbox"/> other (specify): <u>Express Mail Certificate of Mailing dated July 3, 2003, bearing Express Mail Label No. EV325704057US</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Figure of the drawings which should accompany the abstract:</p> | <p>Language of filing of the international application: <u>English</u></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Box No. 2 SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE</p> <p>After having submitted, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; vertical-align: bottom;"> <u>Mohammad K. Marzabadi</u> Mohammad Marzabadi DATE </td> <td style="width: 33%; text-align: center; vertical-align: bottom;"> <u>Yu Liang</u> Yu Liang DATE </td> <td style="width: 33%; text-align: center; vertical-align: bottom;"> <u>07/30/03</u> DATE </td> </tr> <tr> <td style="width: 33%; text-align: center; vertical-align: bottom;"> <u>Kai Lu</u> Kai Lu DATE </td> <td style="width: 33%; text-align: center; vertical-align: bottom;"> <u>Chien-An Chen</u> Chien-An Chen DATE </td> <td style="width: 33%; text-align: center; vertical-align: bottom;"> <u>07/30/03</u> DATE </td> </tr> </table> | | | <u>Mohammad K. Marzabadi</u> Mohammad Marzabadi DATE | <u>Yu Liang</u> Yu Liang DATE | <u>07/30/03</u> DATE | <u>Kai Lu</u> Kai Lu DATE | <u>Chien-An Chen</u> Chien-An Chen DATE | <u>07/30/03</u> DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>Mohammad K. Marzabadi</u> Mohammad Marzabadi DATE | <u>Yu Liang</u> Yu Liang DATE | <u>07/30/03</u> DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>Kai Lu</u> Kai Lu DATE | <u>Chien-An Chen</u> Chien-An Chen DATE | <u>07/30/03</u> DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">For receiving Office use only</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; border: 1px solid black; padding: 5px;"> 1. Date of actual receipt of the purported international application: </td> <td rowspan="4" style="width: 30%; border: 1px solid black; padding: 5px; vertical-align: top;"> 2. Drawings: <input type="checkbox"/> received: <input type="checkbox"/> not received: </td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;"> 3. Corrected date of actual receipt due to late but timely received papers or drawings completing the purported international application: </td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;"> 4. Date of timely receipt of the required corrections under PCT Article 11(2) </td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;"> 5. International Searching Authority (if two or more are competent): <u>ISA</u> </td> </tr> <tr> <td colspan="2" style="border: 1px solid black; padding: 5px;"> 6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid </td> </tr> </table> | | | 1. Date of actual receipt of the purported international application: | 2. Drawings: <input type="checkbox"/> received: <input type="checkbox"/> not received: | 3. Corrected date of actual receipt due to late but timely received papers or drawings completing the purported international application: | 4. Date of timely receipt of the required corrections under PCT Article 11(2) | 5. International Searching Authority (if two or more are competent): <u>ISA</u> | 6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5. International Searching Authority (if two or more are competent): <u>ISA</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p style="text-align: center;">For International Bureau use only</p> <div style="border: 1px solid black; padding: 5px; min-height: 40px;"> <p>Date of receipt of the record copy by the International Bureau:</p> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Box No. IX CHECK LIST: LANGUAGE OF FILING | | Number of items |
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| <p>This international application contains:</p> <p>(a) the following number of sheets in paper form:</p> <p>request (including declaration sheets) : 9</p> <p>description (excluding sequence listing part) : 127</p> <p>claim : 11</p> <p>abstract : 1</p> <p>drawing : 0</p> <p>Sub-total number of sheets : 148</p> <p>sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below) : (1)</p> <p>Total number of sheets : 148</p> <p>(b) sequence listing part of description filed in computer readable form:</p> <p>(i) <input type="checkbox"/> only under Section 801(a)(ii)</p> <p>(ii) <input type="checkbox"/> in addition to being filed in paper form (under Section 801(a)(ii))</p> <p>Type and number of carriers (discette, CD-ROM, CD-R or other) on which the sequence listing part is contained (additional copies to be indicated under item 9(ii), in right column):</p> | <p>This international application is accompanied by the following items (mark the applicable check-boxes below and indicate in right column the number of each item):</p> <p>1. <input checked="" type="checkbox"/> fee calculation sheet : 1</p> <p>2. <input type="checkbox"/> original separate power of attorney</p> <p>3. <input type="checkbox"/> original general power of attorney</p> <p>4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:</p> <p>5. <input type="checkbox"/> statement explaining lack of signature</p> <p>6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s):</p> <p>7. <input type="checkbox"/> translation of international application into (language):</p> <p>8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material</p> <p>9. <input type="checkbox"/> sequence listing in computer readable form (indicate also type and number of carriers (discette, CD-ROM, CD-R or other))</p> <p>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)</p> <p>(ii) <input type="checkbox"/> (only where check-box (b)(i) or (b)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter</p> <p>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column.</p> <p>10. <input checked="" type="checkbox"/> other (specify): <u>Express Mail Certificate of Mailing dated July 3, 2003, bearing Express Mail label No. EV325704057US</u></p> | |
| Figure of the drawings which should accompany the abstract: | Language of filing of the international application: <u>English</u> | |
| <p>Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE</p> <p><i>Kim Andersen</i> <u>July 30, 2003</u> Kim Andersen DATE</p> <p><i>John Deleon</i> <u>7/30/03</u> John Deleon DATE</p> <p><i>John Wetzel</i> <u>July 30, 2003</u> John Wetzel DATE</p> | | |
| <p>1. Date of actual receipt of the purported international application:</p> <p>3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:</p> <p>4. Date of timely receipt of the required corrections under PCT Article 11(2):</p> <p>5. International Searching Authority (if two or more are competent): <u>ISA</u></p> | | <p>2. Drawings:</p> <p><input type="checkbox"/> received:</p> <p><input type="checkbox"/> not received:</p> <p>6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid</p> |
| <p>Date of receipt of the record copy by the International Bureau:</p> | | |